10/056,188

```
=> d his

     (FILE 'HOME' ENTERED AT 09:24:05 ON 08 FEB 2005)

     FILE 'REGISTRY' ENTERED AT 09:24:09 ON 08 FEB 2005
L1                SCREEN 2047 AND 2009 AND 2016
L2                STRUCTURE UPLOADED
L3                QUE L2 AND L1
L4             2 S L3
L5            34 S L3 FULL
L6                SCREEN 1006 AND 2047 AND 2016 AND 2009
L7                STRUCTURE UPLOADED
L8                QUE L7 AND L6
L9             0 S L8
L10            0 S L8 FULL
L11               SCREEN 2047 AND 2016 AND 2009
L12               STRUCTURE UPLOADED
L13               QUE L12 AND L11
L14            0 S L13
L15            0 S L13 FULL

     FILE 'CAPLUS, BIOSIS, MEDLINE, EMBASE' ENTERED AT 09:32:15 ON 08 FEB 2005
L16           24 S L5
L17           23 DUP REM L16 (1 DUPLICATE REMOVED)

=> log y
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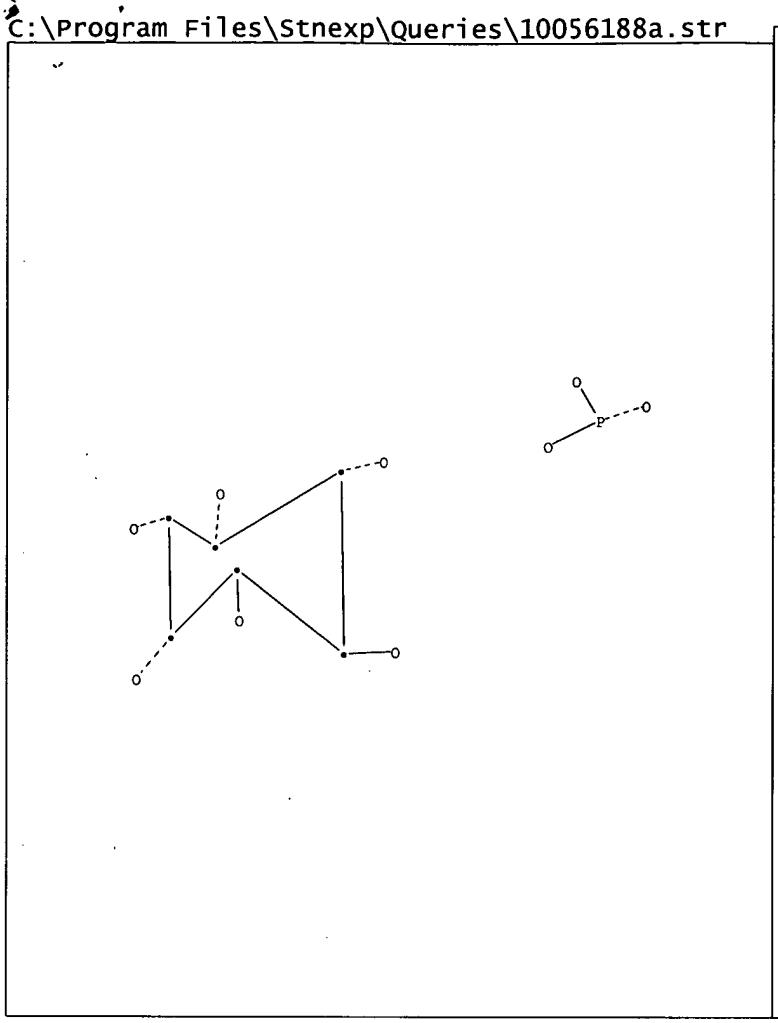
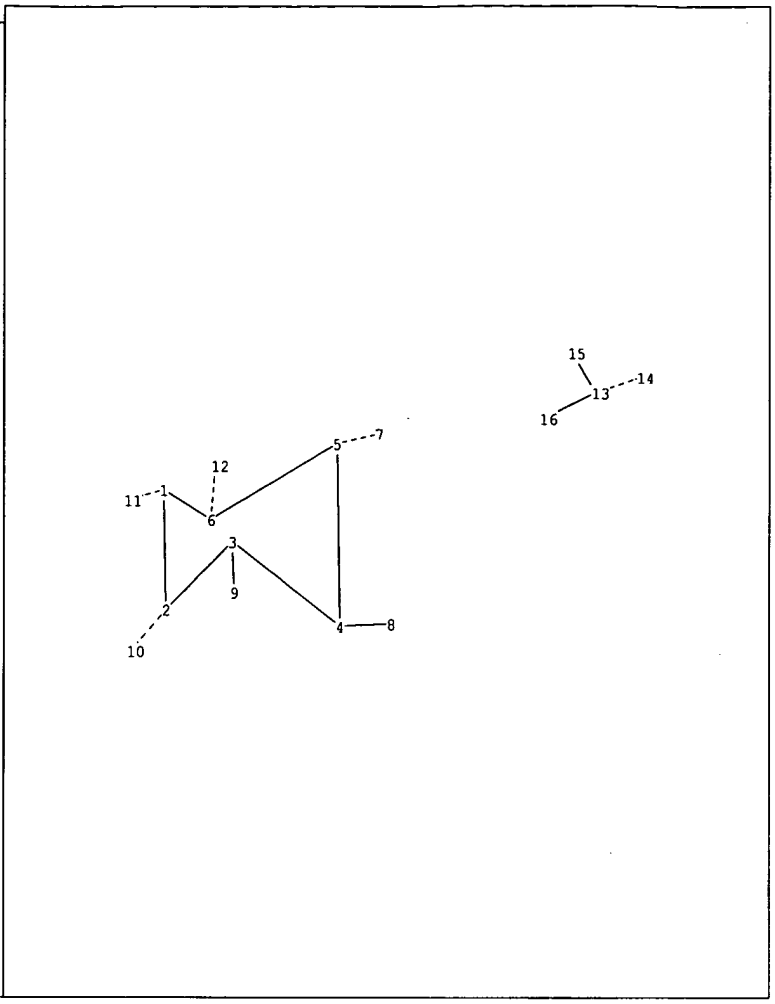
C:\Program Files\Stnexp\Queries\10056188a.str

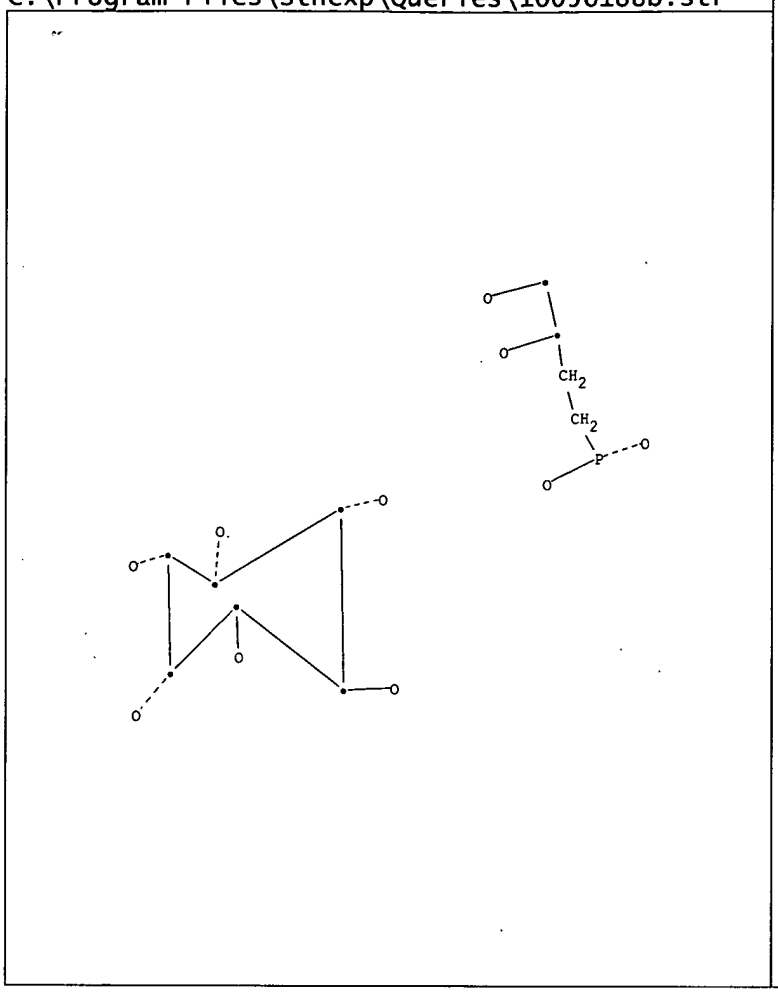


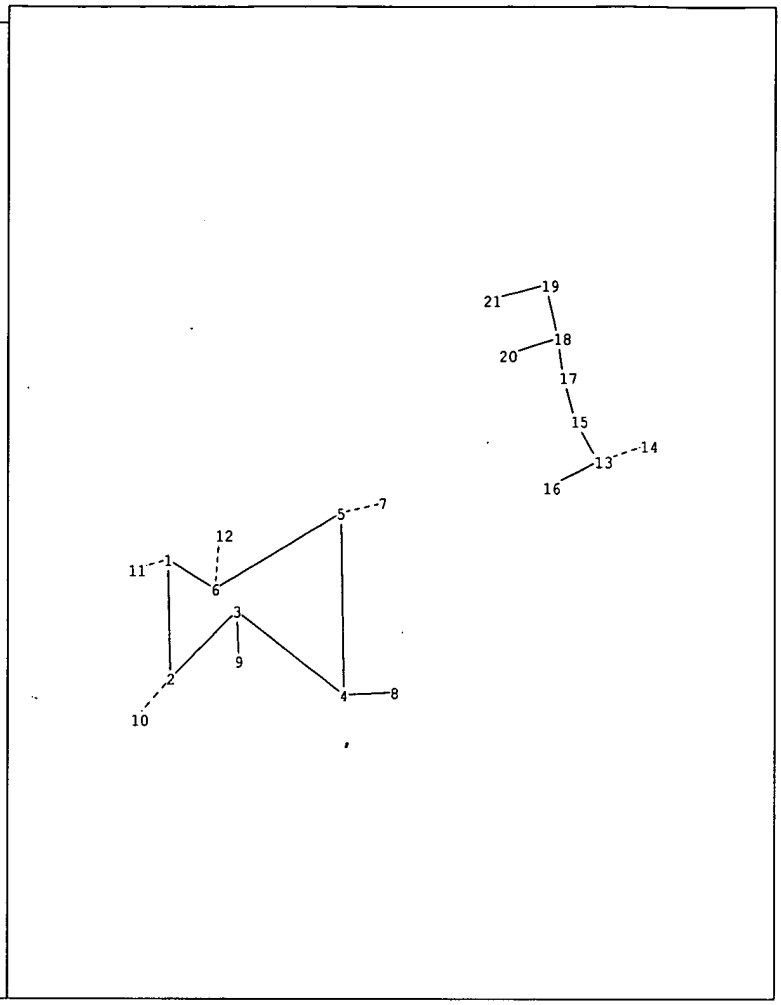


chain nodes :
7 8 9 10 11 12 13 14 15 16
ring nodes :
1 2 3 4 5 6
chain bonds :
1-11 2-10 3-9 4-8 5-7 6-12 13-14 13-15 13-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 1-11 2-3 2-10 3-4 3-9 4-5 4-8 5-6 5-7 6-12 13-14 13-15 13-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

C:\Program Files\Stnexp\Queries\10056188b.str





chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
ring nodes :
1 2 3 4 5 6
chain bonds :
1-11 2-10 3-9 4-8 5-7 6-12 13-14 13-15 13-16 15-17 17-18 18-19 18-20 19-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 1-11 2-3 2-10 3-4 3-9 4-5 4-8 5-6 5-7 6-12 13-14 13-16 18-20 19-21
exact bonds :
13-15 15-17 17-18 18-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS

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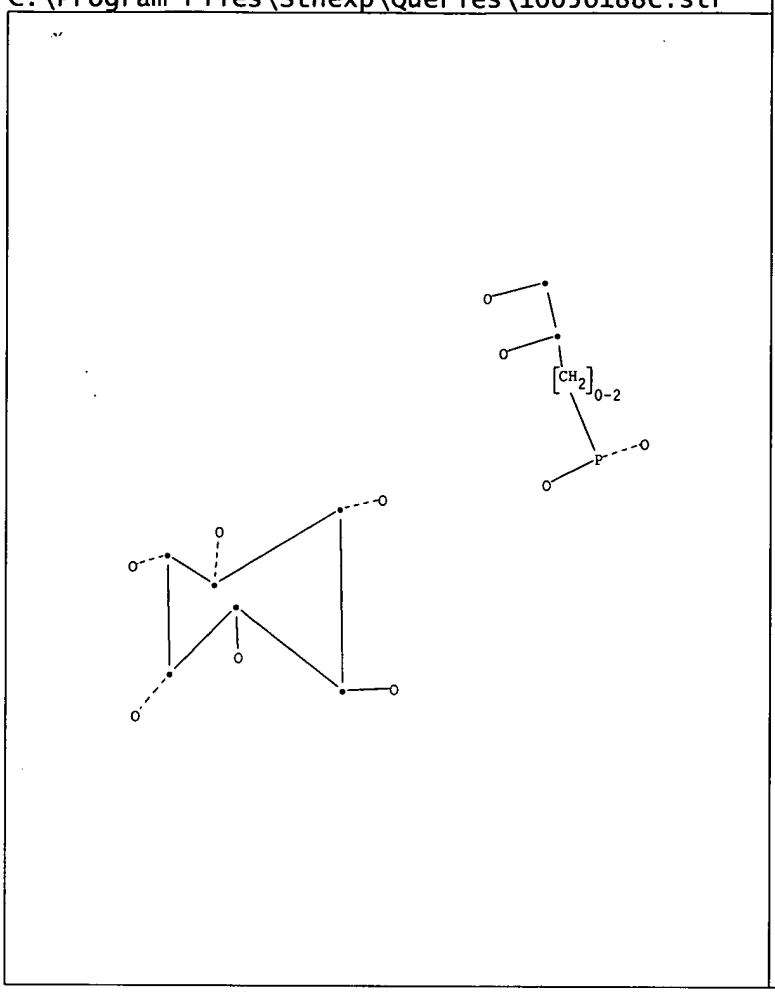
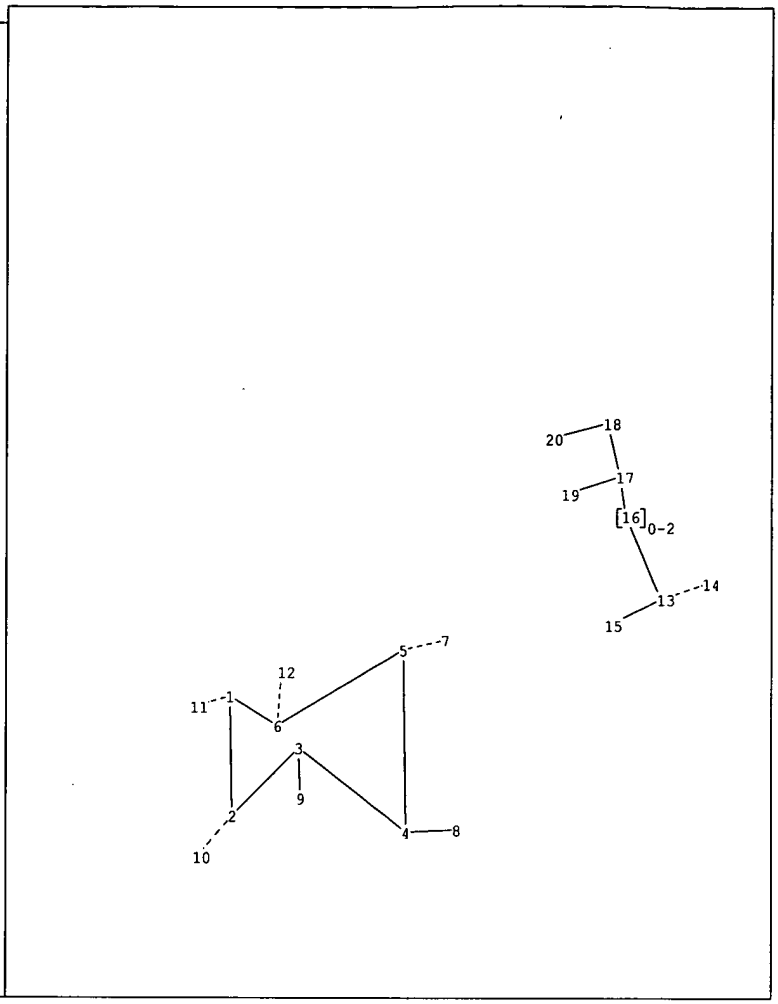


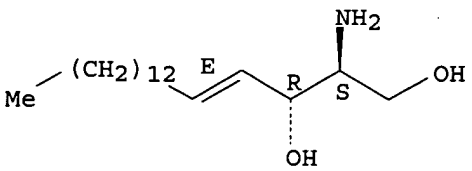


chain nodes :
7 8 9 10 11 12 13 14 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6
chain bonds :
1-11 2-10 3-9 4-8 5-7 6-12 13-14 13-15 13-16 16-17 17-18 17-19 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 1-11 2-3 2-10 3-4 3-9 4-5 4-8 5-6 5-7 6-12 13-14 13-15 17-19 18-20
exact bonds :
13-16 16-17 17-18

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 123-78-4 REGISTRY
CN 4-Octadecene-1,3-diol, 2-amino-, (2S,3R,4E)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 4-Octadecene-1,3-diol, 2-amino-, (E)-D-erythro- (8CI)
CN 4-Octadecene-1,3-diol, 2-amino-, [R-[R*,S*-(E)]]-
OTHER NAMES:
CN (-)-D-erythro-Sphingosine
CN (2S,3R)-Sphingosine
CN (2S,3R,4E)-2-Amino-4-octadecene-1,3-diol
CN (4E)-Sphingenine
CN 4-Sphingenine
CN 4-trans-Sphingenine
CN C18-Sphingosine
CN D-(+)-erytho-4-trans-Sphingenine
CN D-erythro-C18-Sphingosine
CN D-erythro-Sphingosine
CN D-Sphingosine
CN erythro-4-Sphingenine
CN erythro-C18-Sphingosine
CN Erythrosphingosine
CN Sphingenine
CN **Sphingosine**
CN trans-4-Sphingenine
FS STEREOSEARCH
DR 45261-75-4
MF C18 H37 N O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



From Biochemistry Textbook
(Biochemistry by Mathews van Holde ©1990)

pg. 305

General structure of a ceramide (R = hydrocarbon)